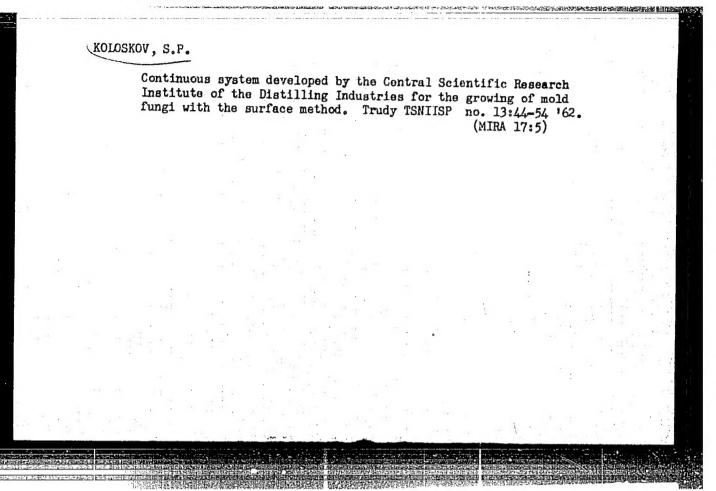
Design of automatic devices with nonlinear elements by a method which involves the alignment of characteristics. Izv. vys. ucheb. zav.; elektromekh. 4 no.4:94-104 '61. (MIRA 14:7)

1. Moshovskiy aviatsionnyy institut. (Automatic control) (Amplifiers(Electronics))



38829

S/143/62/000/006/005/008 D238/D308

9.6130

26.1518

Kolosov, S. P., Candidate of Technical Sciences, Docent

AUTHOR:

Problems of the design of non-linear electrical cir-

cuits with photoelectric converters

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Energetika,

no. 6, 1962, 45-50

TEXT: A study is made of parametric photoelectric converters (those whose resistance varies under the influence of electromagnetic irradiations). The most suitable characteristic is a family of voltampere curves of a given type of photoelectric cell taken for different intensities of irradiation $\mathbf{E_i}$. The simplest appro-

ximations are based on the substitution of the relatively linear sections of the voltampere curves by straight lines. For the point photodiode an approximation can be used in the form:

Card 1/3

S/143/62/000/006/005/008 D238/D308

Problems of the design ...

$$I_{ph} = I_o + kE_{in} + U_{ph}/r_{iph}$$
 (1)

where I_{ph} is the current through the photodiode; U_{ph} - the voltage drop at the photodiode; I_0 - a section cut off for the current axis by the rectified characteristic corresponding to zero input signal; $E_{in} = 0$; $K = \frac{\triangle I_{ph}}{\triangle E_{in}}$ (for $U_{ph} = \text{const}$); $r_{iph} = \tan \rho = \frac{\triangle U_{ph}}{\triangle I_{ph}}$ (for $E_{in} = \text{const}$). For vacuum photocells, plane photodiodes and plane phototriodes, the last term on the right-hand side of Eq. (1) can be disregarded. The voltampere curves of a gasfilled photocell can be approximated to a family of straight lines passing through origin of the coordinates

Card 2/3

Problems of the design ...

S/143/62/000/006/005/008 D238/D308

$$U_{ph} = r_{iph0}(1 - kE_{in})I_{ph}$$

where ripho is the internal differential resistance of the gasfilled photocell with zero input signals. The voltampere curves of photo-resistors can be approximated by

$$U_{ph} = 1/(g_{ph0} + n m \sqrt{E_{in}})I_{ph}$$

The approximations are illustrated by two examples. There are 4 figures.

ASSOCIATION: Moskovskiy aviatsionnyy institut imeni S. Ordzhoni-kidze (Moscow Order of Lenin Institute of Aviation

imeni S. Ordzhonikidze)

-SUBMITTED:

May 15, 1961

Card 3/3

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930002-4"

8/170/62/005/009/008/010 B104/B102

AUTHORS:

Kolosov, S. P., Ostryakov, I.A., Smirnov, V. A., Shelenkov, V. M.

TITLE:

Current-conducting polymers as thermistors

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 5, no. 9, 1962, 85 - 89

TEXT: Thermoelectric characteristics of 16 different current conducting polymens as determined experimentally are given. The characteristics of other polymers are stailar to these. Two groups of specimens were studied; (1) based on mixtures containing a constant weight of filler with varying weights of polyisobutylene and/or polyethylene; (2) based on mixtures containing constant weights of polyisobutylene and/or polyethylene with varying weights of fillers. The specimens in the first group were of the type \(\begin{align*} \text{-85Kh} \end{align*}, \begin{align*} \begin{align*} \P-118Kh \end{align*} etc., those in the second group; \(C-50X \end{align*} \) (P-85Kh), \(C-60X \end{align*} \) (S-60Kh) etc. Using the analogy between thermistors and polymers, the design of current circuits with conducting polymers is discussed and relations for the behavior of the thermopolymers under transient conditions are derived. There is 1 table.

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	(A)	viation Instit	ute imeni Ser	go Ordzhoniki	dze, Moscow)	
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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930002-4"

KOLOSOV, S.P., kand. tekhn. nauk, dotsent

Problems concerning the design of nonlinear electrical networks containing photoelectric converters. Izv. vys. ucheb. zav.; energ. 5 no.6:45-50 Je 162. (MIRA 15:6)

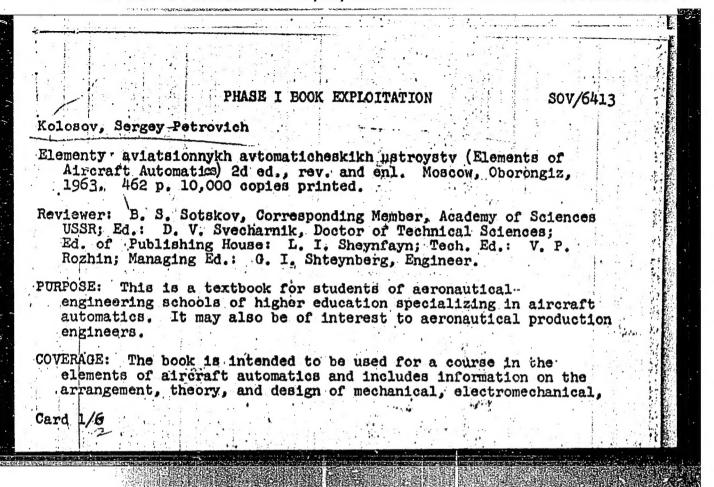
1. Modkovskiy ordena Lenina aviatsionnyy institut imeni S.Ordzhonikidze. (Photoelectric cells) (Electric networks)

KCLOSOV, S.P.; OSTRYAKOV, I.A.; SMIRNOV, V.A.; SHELENKOV, V.M.

Using current-conducting polymers as thermistors. Inzh.-fiz.zhur.
5 no.9185-89 S *62. (MIRA 15:8)

1. Aviatsionnyy institut imeni Sergo Ordzhonikidze, Moskva. (Thermistors) (Polymers)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930002-4"



Elements of Aircraft Automatics

sov/6413

ferromagnetic, electronic, semiconductor, and other elements of automatic systems. Sample calculations are provided for major sections of the book. Considerable attention is given to dynamic properties of component elements and the effect of operational conditions on the stability of their parameters, as well as to methods of design and means of improving their reliability. The problem of linking the controllers with digital computers is discussed briefly. The author thanks V. P. Kononov and P. A. Kononov, Candidates of Technical Sciences, D. V. Svecharnik, Doctor of Technical Sciences, B. S. Sotskov, Corresponding Member of AN SSSR, and B. N. Petrov, Academician, for their advice in preparing the book for publication; thanks are also expressed to A. S. Abramov and V. A. Ryabov, Doctors of Technical Sciences, B. S. Voronkov and Yu. I. Konev, Candidates of Technical Sciences, as well as to department staffs directed by I. Ye. Mitrofanov and P. A. Persianov, Candidates of Technical Sciences, V. A. Pavlov, Doctor of Technical Sciences, for valuable remarks on the first edition of the book. There are 15 references, all Soviet (one translation).

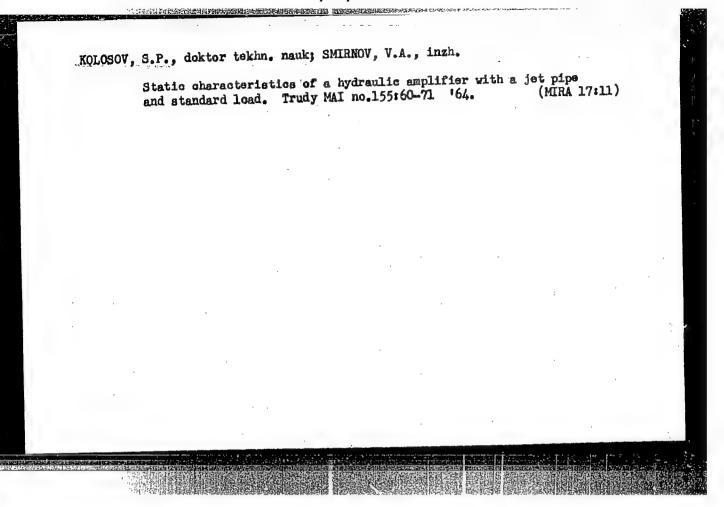
Card 2/8

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930002-4"

KOLOSOV, S.P., doktor tekhn.nauk, prof.

Calculation of electrical networks containing thermistors using an internal feedback technique. Izv. vys. ucheb. zav.; energ. 6 no.10:122-125 0 '63. (MIRA 16:12)

1. Moskovskiy aviatsionnyy institut imeni S.Ordzhonikidze.



KOLOSOV, S.P., doktor tekhm. nauk; PUTINSEV, V.A., inzh.; SMIRNOV, V.A., inzh.; SHELENKOV, V.M., inzh.

Calculation of reversive networks with a.c. power supply. Trudy MAI no.155:90-109 *64. (MIRA 17:11)

KOLOSOV, S.P., doktor tekhn nauk; OSTRYAKOV, I.A., inzh.; SMIRNOV, V.A., inzh.; SHELENKOV, V.M., inzh.

Calculation of circuits with current conducting polymers. Trudy MAI no.155:120-131 '64. (MIRA 17:11)

SOTSKOV, Boris Stepanovich DOMANSKIY, B.I., prof., doktor tekhn. nauk, retservent; KOLOSOV, S.P., nrof.. doktor tekhn. nauk, retservent; NEFFDOVA, V.I. dots., kand. tekhn. nauk, red.

[Principles of the calculation and design of electromechanical components of automatic and remote control systems) Osnovy raschets i proektirovaniia elektromekhanicheskikh elementov automaticheskikh i telemekhanicheskikh ustroistv. Moskva, Energiia, 1965. 575 p. (MIRA 18:9)

KOLOBOV, S.3.; PRUCHANSKIY, V.S.

Methodology of calculating cross sections of the body in planning radiotherapy of tumors of organs in the thoracic cavity. Mod. rad. 9 no.11:62-64 N 164. (MIRA 18:9)

1. Rentgenodiagnosticheskiy otdel (zav. K.B. Tikhonov) TSentral'nogo nauchno-isaledovatel'skogo rentgeno-radiologicheskogo instituta Ministerstva zdravookhraneniya SSSR, Leningrad.

TIKHONOV, K.B.; KOLOSOV, S.S.; PRUCHANSKIY, V.S.

Reentger logical methods in the practice of planning radiotherapy.

Med. rad. 10 no.1:70-74 Ja '65. (MIRA 18:7)

1. TSentral'nyy nauchno-issledovatel'skiy rentgeno-radiologicheskiy institut Ministarstva zdravookhraneniya SSSR. Leningrad.

KOLOSOV, V. A.

Growing labor productivity in mechanised mines. Mast.ugl.4 no.10: 3-5 0 '55. (MIRA 9:1)

l. Machal
 † nik tekhnicheskogo otdela tresta Stalinogorskugol
 † kombinata Moskvougol † .

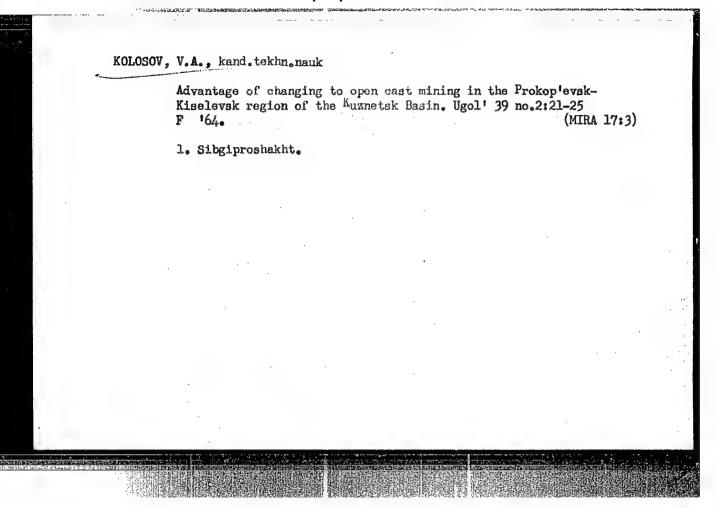
(Coal mining machinery)

BATALIN, S.A.; BIRYUKOV, R.A.; KOLOSOV, V.A.

Forced blowing and suction method in the ventilation of mines in the Prokopyevsk-Kiselevsk area of the Kusnetsk Basin. Ugol 35 no.3:54-58 Mr '60. (MIRA 13:6)

- 1. Tomskiy politekhnicheskiy institut (for Batalin).
 2. Kemerovskiy gornyy institut (for Biryukov).
- 3. Kusbassgiproshakht (for Kolosov). (Kusnetsk Basin--Mine ventilation)

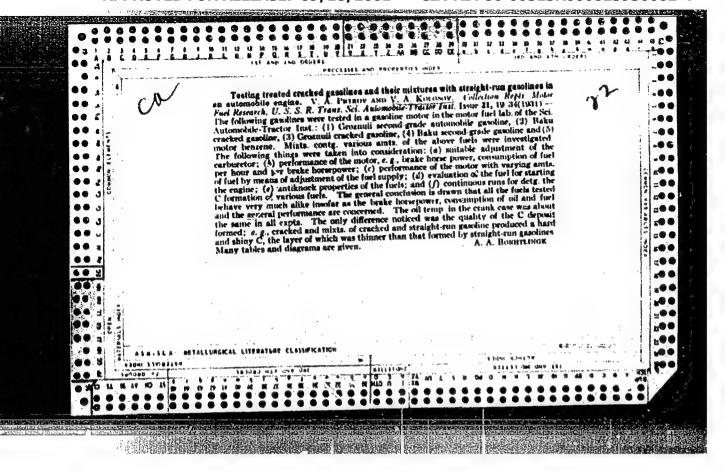
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KOLOSOV, V.A., kand.tekhn.nauk

Advantage of changing to open cast mining in the Prokop'evsk-Kiselevsk region of the Kuznetsk Basin. Ugol' 39 no. 2:21-25 F '64. (MTRA 17:3)

1. Silgiproshakht.

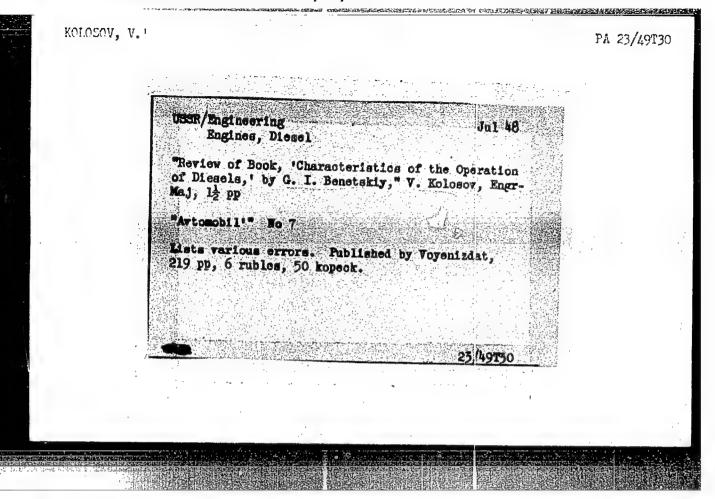


Methods of Sering Gusoline in Motorized Corrier Service, Peoples' Commissariot of Municipal Affairs RSFSR, Mascow-Leningrad, 1943.

KOLOSOV, V. A., Eng.-Major Cand. Tech. Sci.

Dissertation: "Conservation of Fuel for Transport Vehicles by Decreasing the Periods of Engine Operation Without Full Loads." Military Order of Lenin Academy of Armored and Mechanized Troops of the Soviet Army imeni I. V. Stalin, 21 Apr 47.

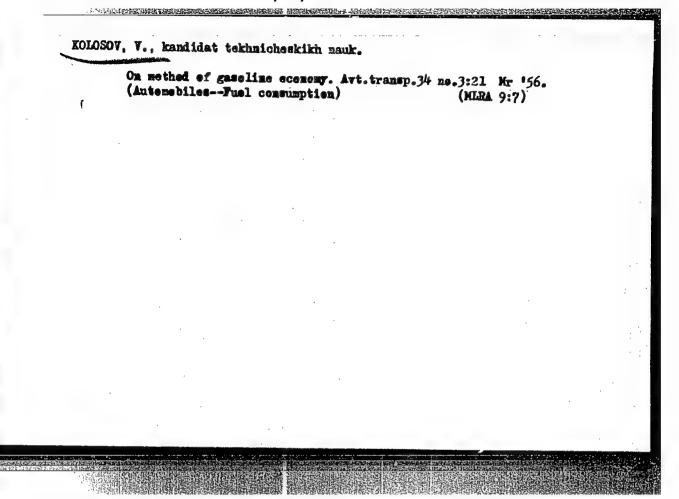
SO: Vechernyaya Moskva, Apr, 1947 (Project #17836)



SAMOL', G.I., kandidat tekhnicheskikh nauk; GOL'DBLAT, I.I., kandidat tekhnicheskikh nauk; KOLOSOV. V.A., kandidat tekhnicheskikh nauk, redaktor; POPOVA. S.M., tekhnicheskiy redaktor

[Gas cylinder automobiles] Gasoballonnye avtomobili. Izd. 2-e, perer. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudo-stroit. lit-ry, 1953. 284 p. (MLRA 7:9) (Automobiles-Engines (Compressed gas))

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930002-4"



KOLOSOV, V., kand. tekhn. nauk.

Italian motortrucks. Art. transp. 36 no.5:36-37 Wy 158.

(Italy--Motortrucks) (MIRA 11:6)

Motorbus with semitrailers. Avt. transp. 36 no.9:59 S '58.

(Motorbuses)

(Motorbuses)

ZHIL'TSOV, V.R.; ZELENOV, A.F.; KOKIN, A.G.; KOLOSOV, V.A.;
KOROBITSYN, M.D.; MALYAVINSKIY, A.M.; NEFEDOV, Ya.D.;
PAVLOV, A.V.; STEPANOV, Yu.A., prof.; SUVOROV, V.G.;
YUSHIN, S.I.; POCHTAREV, N.F., kand. tekhn. nauk, inzh.polkovnik, red.; KUZ'MIN, I.F., tekhn. red.

[Internal combustion engines; design and performance] Dvigateli vnutrennego sgoraniia; ustroistvo i rabota. [By] V.R. Zhil'tsov i dr. Pod red. IU.A.Stepanova. Moskva, Voen. izd-vo M-va obor. SSSR, 1955. 470 p. (MIRA 16:6) (Internal combustion engines)

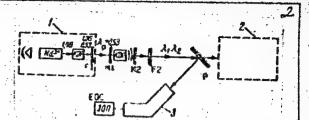
IJP(c) L 24203-66 FBD/EWT(1)/EEC(k)-2/T/EWP(k)/EWA(h) SOURCE CODE: UR/0386/66/003/009/0372/0378 ACC NR: AP6014614 AUTHOR: Akhmanov, S. A.; Kovrigin, A. I.; Kolosov, V. A.; Piskarskas, A. S. Fadeyev, V. V.; Khokhlov, R. V. ORG: Physics Department of the Moscow State University (Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta) TITIE: Tunable parametric light generator with KDP crystal SOURCE: Zhurnal eksperimental nov i teoreticheskoy fiziki. Pis ma v redaktsiyu. Prilozheniye, v. 3, no. 9, 1966, 372-378 TOPIC TAGS: laser r and d, parametric converter, parametric amplifier, frequency controal ABSTRACT: The authors present in this communication the results of an experimental investigation that has led to the construction of a continuously tunable parametric generator of coherent light waves in the region of $\lambda \simeq 1~\mu$, using a KDP crystal. Continuous tuning of the wavelength was effected mechanically in a band from 9575 to 11775 A, and the oscillation power reached several kilowatts. The frequency is tuned by rotating a nonlinear crystal in an optical resonator (Fig. 1). Such a scheme has made it possible not only to construct a generator with larger bandwidth than hitherto, but also to attain better reproducibility of the generated frequencies. The pump produced coherent oscillations at 0.53 \(\lambda\) (second harmonic of laser with Nd3+), the maximum pump power in the unfocused beam reached 30--35 Ww/cm2, the pump pulse duration was 25 x 10-9 sec, and the beam divergence was ~7'--8', with the Card 1/2

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ACC NR: AP6014614

Fig. 1. Block diagram of the experimental setup: M1, M2 -- mirrors of parametric generator, F1, F2 -- filters, P -plane-parallel plate, 1 -- pump generator, 2 -- meter, 3 -- spectrograph.



length of the KDP crystal 3 cm. The theory of the parametric generator is discussed in detail. Tests have shown the degenerate parametric oscillations ($\lambda_1 = \lambda_2 = 1.06$ μ) to occur at a pump power $P_p \ge 8$ --10 Mw/cm² (inside the resonator). With increasing deviation from the degenerate mode, the threshold pump power increased. Self-escitation was manifested by the appearance of an intense signal which exceeded the indicator background by a factor of at least 105; the produced radiation had good directivity and its divergence angle did not exceed 1.5'. At $P_{\rm p} \simeq 30-35$ Mw/cm the power of the parametric oscillations reached 5 kw. Tuning curves of the parametric light generator are presented and agree essentially with the presently accepted theory. The limiting tuning range is found to be determined only by the position of the absorption bands; estimates show that it should be not smaller than 4000 The authors thank N. K. Podsot-skaya for help with the measurements and I. V. Nizhegorodova for help with the data reduction. Orig. art. has: 3 figures and 3 formulas.

SUB CODE: 20/ SUBH DATE: 17Mar66/

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OTH REF: 006 / ATD PRESS

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PETROV, Yakev Petrovich; BURGUTIN, K.S., retsensent; KOLOSOV, V.D., retsensent; TORBOCHKIN, I.L., retsensent; KURUKOV, U.M., redaktor; PITERMAN, Ye.L., redakter; KOLKSNIKOVA, A.P., tekhnicheskiy redakter.

[Steam pewered vessels] Parometermyi flet. Meskva, Goslesbumisdat, 1955. 306 p. (MLRA 9:1) (Steamboate)

中国的国际企业,并不是一个企业的企业,并不是一个人,但是这个人的企业的,但是对于一个人的企业的,但是他们是是是国际的企业的,但是是是是是是国际的人,不是一个人的

KOLOSOV, Vasiliy Dmitriyevich; SHEVCHUK, L.V., red.; KIRZAN,G.A., spets. red.; MEL'NIKOV, V.I., tekhn. red.

[Experience with and prospects for rural construction]Opyt i perspektivy stroitel'stva na sele. Omsk, Omskoe knizimoe izd-vo, 1959. 58 p. (MIRA 15:8)

1. Nachal'nik mezhkolkhoznoy stroitel'noy kontory Lyubinskogo rayona, Omskoy oblasti (for Kosov). 2. Glavnyy inzhener Omskogo oblastnogo upravleniya po stroitel'stvu v kolkhozakh (for Kirzan).

(Construction industry) (Farm buildings)

CHEREPANOV, Veniamin Yakovlevich; KOLOSOV, V.D., red.

[Repair of the steel bodies of vessels and machines used in lumber floating] Remont stallnykh korpusov lesosplav-

nykh sudov i mashin. Moskva, Lesnaia promyshlennost', 1965. 151 p. (MIRA 18:6)

9.7000

\$/194/62/000/001/010/066 D201/D305

AUTHORS:

Afinogenov, L. P., Yefremov, V. D. and Kolosov, V.G.

TITLE:

Ferrite switching circuits based on the principle of

current distribution

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 1, 1962, abstract 1-2-9g (Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t, 1960, no. 12, 24-31)

TEXT: A description of circuits, designed on the principle of current distribution, is given. They may find wide application in various switching arrangements. The described circuits are distinguished by an excellent reliability, simplicity and fast operation. The following are described: The basic circuit of a ferrite switch, its functional circuit diagram, a distributor circuit with a reduced number of ferrite elements, a cascaded distributor connection and the circuits of two cells of a shift register. 6 figures. 7 references. / Abstracter's note: Complete translation. 7

Card 1/1

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930002-4"

\$/194/61/000/012/030/097 D201/D303

Afinogenov, L. P., Yefremov, V. D. and Kolosov, V. G. AUTHORS:

Counting and logic ferrite systems, based on the prin-TITLE:

ciple of current distribution

PERIODICAL:

Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1961, 28, abstract 12B177 (Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t, 1960, no. 12,

32-42)

TEXT: The circuits of counting and logic devices are considered: Binary and decimal reversible counters, binary storage adders, decoders for 32 and 1024 outputs, a code comparison circuit and a circuit for memory code comparison. The following requirements had to be taken into consideration in designing the above circuits: 1) Large signal-to-noise ratio; 2) the lack of flowing back information; 3) use of components of long-life-time; the circuit operation should not largely depend on the spread of circuit component parameters and on the supply voltage and pulse changes; 4) the

Card 1/2

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Counting and logic ...

S/194/61/000/012/030/097 D201/D303

superimposition principle or compensation of signals from various sources is inadmissible. / Abstractor's note: Complete translation. /

Card 2/2

- ENT(1)/ENA(h) Pob VI AR4046129 Stages to grant of the star of the Contrologiya i White techericist of the control of the control of المناسبة المستثلث entered that consisting the property CITED SOURCE: Uch. zap. aspirantov i soiskateley. Leningr, politekhn. in-t. Elektrogreenst, teknn. i avtomatika. L., 1963, 92-95 if a charge circuit, ferrite tape back, married designation companies. Some of the manufacture of the contract of the 19 CATION: The article describes a new technique for constructing discrete circuits, assition the principle of current distribution. The realization of a logical function occurs from I tout evole. The method is based on a selection of the conductor arm of a arms containing winnings or reference which the contract of any magneticul much corresponding to high impedance prior to entry of the stata. As input was red in the farrite hank is magnetized by them in the same direction to a level the arm containing we have

ACCESSION NR: AR 4046129

Comment when a current pulso is present in one of two inputs, among two industribution into two origins and a circuit realizing any diver beging functions of n-dyadic distribution into two origins and a circuit realizing any diver beging functions of n-dyadic distribution into two origins and circuit realizing advantages; a) mgs is Circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle offer the following advantages; a) mgs is circuits based on this principle off

ACC NR: AT7004447 (N) SOURCE CODE: UR/2531/66/000/199/0117/0135

AUTHOR: Kolosov, V. G.; Radomysl'skaya, N. I.

ORG: none

TITIE: Procedure and results of calculation of circuits based on the principle of current distribution in a wide temperature range

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 199. 1966. Meteorologicheskiye pribory i avtomatizatsiya meteorologicheskikh izmereniy (Meteorological instruments and the automation of meteorological measurements), 117-135

TOPIC TAGS: circuit theory, computer circuit, ferrite core memory

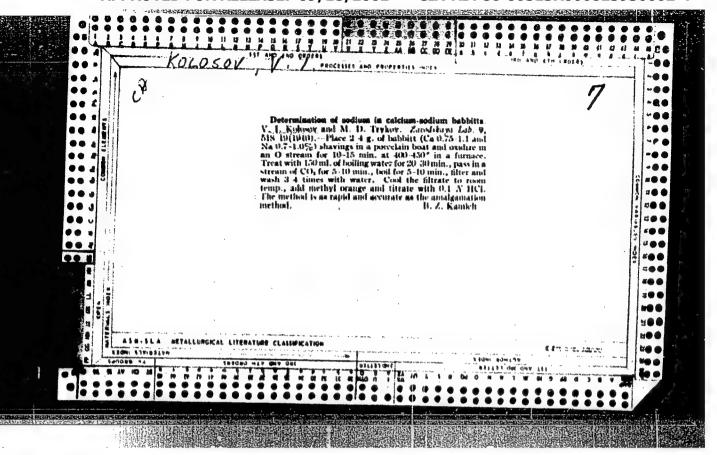
ABSTRACT: Experience has shown that the circuitry for digital systems can be presented as consisting of two circuit types: series connections of the elemental cells and connections of the pyramidal type. This is called the principle of current distribution. The authors analyze circuits based on this principle and show that circuits using four-cycle pulse systems instead of the commonly used two-cycle systems have certain advantages (such as a reduction of turns in the coils of the electromagnets and of the pulse amplitude. A calculation procedure is given for a ferrite core in the temperature range between -60 and +50°C. Circuits are calculated for the maximal speed for both decimal and binary systems, and the duration of the

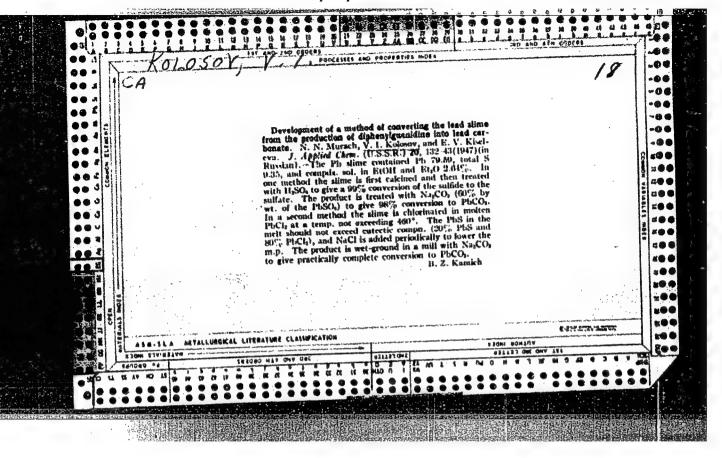
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L 16797-66 ENT(d)/EMP(1) IJP(c) BB/GG/JXT(CZ)

ACC NR: AT6005078 SOURCE CODE: UR/2563/65/000/256/0094/0101

AUTHOR: Kolosov, V.G.; Milovidov, B.A.; Radomysl'skava, N.I.

ORG: * none

RII

TITLE: The prospects of <u>digital circuits</u> based on the principle of current distribution in circuits with increased speed and temperature stability

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy, no. 256, 1965. Tsifrovyye izmeritel'nyye i upravlyayushchiye ustroystva (Digital measuring and control devices).

TOPIC TAGS: digital system, computer component, logic element, circuit reliability

ABSTRACT: The authors analyze theoretically the various types of circuits based on the principle of current distribution (PCD) and establish the basic pertinent relationships. Methods for circuit calculations (temperature dependence, maximum speed, minimum pulse duration, maximum frequency) of transistorized and ferrite-core containing units are developed and applied to a specific example of a standard fast, reliable unit and a PCD transmitting cell in four-cycle operation. This four-cycle cell operates with useful

Card 1/2

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GRISHAYEV. I.A. [Hryshalev, I.O.]; KOLOSOV, V.I.; MYAKOTA, V.I. [M'iakota, V.I.]; YKIMOV, B.V. [IAkymov, B.V.]

Eliminating the effect of a harmful magnetic field component in a magnetic undulator. Ukr.fiz.zhur. 4 no.6:810-812 N-D '59. (MIRA 14:10)

1. Fiziko-tekhnicheskiy institut AN USSR.

(Magnetic fields) (Magnetic instruments)

9.3260

68805

AUTHORS:

Grishayev, I. A., Kolosov, V. I., Myakota, V. I., Belogiazov, V. I., 8/020/60/131/01/016/060

B013/B007

Yakimov, B. V.

TITLE:

The Experimental Determination of the Power of the Submilli-

meter Range in a Magnetic Undulator

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 1, pp 61 - 63

(VSSR)

ABSTRACT:

The present paper describes the preliminary results obtained by determining the summational mean power of the electromagnetic oscillations of the submillimeter range. The power to be determined is emitted by relativistic 17 Mev electrons in a magnetic undulator. With an average electron amperage of 4 μa.

~10⁻⁷ w was obtained for the level of the mean power. The production of a radiation in the tenth-of-a-millimeter range and in the submillimeter range is of great practical interest. Such electromagnetic oscillations can at present be produced only by means of spark generators and heated bodies. However, the power levels obtained in this way are very low. The undulatory method of producing high-frequency oscillations, which is based upon

Card 1/4

The Experimental Determination of the Power of the S/020/60/131/01/016/060 Submillimeter Range in a Magnetic Undulator B013/B007

using the double Doppler-effect of frequency transformation, makes it possible to bridge the entire range of electromagnetic oscillations from 1 mm to visible light. The level of the emitted power may actually be made sufficiently large, even in the case of an incoherent radiation. For the frequency of radiation in a magnetic undulator for the free space $\gamma = \sqrt{[1](1 - \beta \cos \vartheta)}$ holds. Here v denotes electron velocity, $1 - \theta \cos \vartheta$ netic structure; $\beta = v/c$; $\partial r - the angle between the direction$ of motion and the direction towards the observer. The production of electromagnetic oscillations may, in a sufficiently wide frequency-range, be determined by measuring electron energy (with constant 10). The undulator used in the present paper consists of separate electromagnets, in which it was possible to eliminate completely the harmful components of the magnetic field. 90% of the input amperage passed through the entire undulator. With the wave guide dimensions used here, a discrete spectrum of electromagnetic oscillations was obtained because of the difference of the excited oscillations. This spectrum is subdivided into the two principal ranges of 100 to 250 μ and

Card 2/4

The Experimental Determination of the Power of the S/020/60/131/01/016/060 Submillimeter Range in a Magnetic Undulator B013/B007

50 to 67 μ . The main part of the lines produced is in the latter range. At present, measurements of the entire power of radiation of the entire spectrum investigated are being carried out, and preparations are made for recording the spectrum. Figure 1 shows the scheme of the device. The elimination of background is briefly dealt with. The power of electron radiation in the undulator is proportional to H2, and therefore holds. Herefrom and from an other equation it is possible

to calculate the absolute amount of radiation intensity for a given magnetic field. The results obtained by the measurements are given in table 1. The authors thank K. D. Sinel'nikov, Academician of the AS UkrSSR, for the suggested theme, and Ya. B. Faynberg for discussing the results obtained. There are 1 figure, 1 table, and 3 references.

Card 3/4

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930002-4"

The Experimental Determination of the Power of the S/020/60/131/01/016/060 Submillimeter Range in a Magnetic Undulator B013/B007

ASSOCIATION: Fisiko-tekhnicheskiy institut Akademii nauk USSR (Institute of Physics and Technology of the Academy of Sciences of the UkrssR)

PRESENTED: September 16, 1959, by M. A. Leontovich, Academician

SUBMITTED: September 1, 1959

Card 4/4

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930002-4"

00722 S/182/60/000/010/005/006 A161/A029

1200 AUTHOR:

Kolosov, V.M.

TITLE:

Universal Twelve-Position Rotary Block for Elementwise Group Pressing

of Sheet Parts

PERIODICAL:

Kuznechno-shtampovochnoye proizvodstvo, 1960, No. 10, pp. 41 - 43

TEXT: Cold stamping of parts from sheet metal by the group method consists in using either universal dies for element-wise stamping, or group blocks for attaching quickly replaceablecaies, or universal electromagnetic blocks for laminated dies, or multiposition rotary punching and program-controlled presses. The article gives design and operation description of a multiposition (multi-punch) universal block for punching operations, which is the most interesting and practical design type. The idea was of V.M. Isayev, Chief Production Engineer of a Leningrad works, and leading engineer for stamping N.F. Chufarov; the designer is A.V. Glazkov. A photo of the block is given (Fig. 1). It is designed for parts of up to 300 x 600 mm size from up to 2.5-mm thick metal and is recommended for experimental piece, or small-lot production. Twelve standard work packets (dies) for cutting out differn ently shaped part elements (or whole parts) can be installed simultaneously and

Card. 1/7

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Universal Twelve-Position Rotary Block for Elementwise Group Pressing of Sheet Parts

and quickly replaced. A detailed drawing (Fig. 2) shows the design. The rod (2) is pressed into the bottom base (15); is the tsteel bushing (9) with pressed-in ball bearing (16) is set on the rod (which has a thread on the top); the bushing rests through the bearing on the base and rotates freely on the rod. The rotation of the bushing is transmitted through a key to the die-holder (14) and the top base (11) set with snug fit on the bushing. Twelve seats for dies are bored in the holder and in the top base concentrically to each other. A "work packet" consists of a bed die (13), punch (12) and lifter (22). The bed dies are fixed by pins and are screws (21), and the punches in the holders (10) by screws (8); the work position of the punches is fixed by pins. The punch holders end with T-heads in the seats in the top base, move on keys and are retained in the end position (neutral) by the disk (4), and in work position by the trunnion (6) that is attached in the press slider and is provided with a T-shaped slot. Two fasteners (7) on the disk (4) are for holding the punch holders, or (when moved to the block center) for removal of the holders. Parts to be worked are installed in place with the use of mobile carriages (17) and (18) running on the table (19) that is attached to the bottom base of the block. The part is fastened to the carriage by three screws. The spring fixer (20) is for setting the bed die holder and the top base into work Card 2/7

S/182/60/000/010/005/006 A161/A029

iniversal Twelve-Position Rotary Block for Elementwise Group Pressing of Sheet Parts

position. The table (19) can turn left and right on the bottom base, is fastened in place by three screws and makes possible outher; outting out of the elements in a part at different angles to the axis. The table is fitted with rulers, the carriage with noniuses, and the bottom base with divisions. Three different procedures are possible. In the first, the part is fixed on the carriage with three screws, and only the "packet" and the coordination by the rulers is changed. The work sequence is: coordinating the part to the packet No. 1 (Fig. 3,a), cutting out the element, moving packet No. 2 into position, coordinating the part to it, cutting out the element (Fig. 3,b), etc. In the second procedure, all parts of a batch are pushed in sequence to the packet No, 1 and the element is cut out. After the element has been cut out in all the parts of the batch, the packet No. 2 is brought into work position, etc. The third procedure consists in cutting out one and the same element in sequence (or a part) in parts attached on the carriage, and using the nonius to hold the step. It is stated that the application of the described block permits the number of the presses used to be reduced from 7 or 12 down to only one; it permits large parts of high thickness to be worked and the parts quickly to be reset toward the packet by the carriages. The manufacturing costs

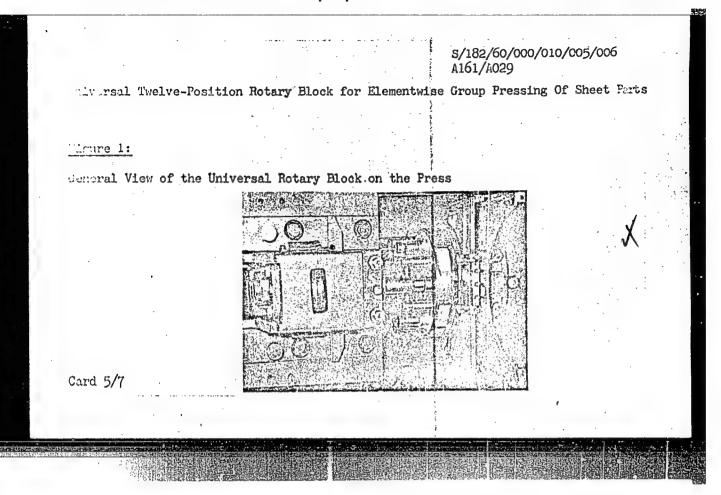
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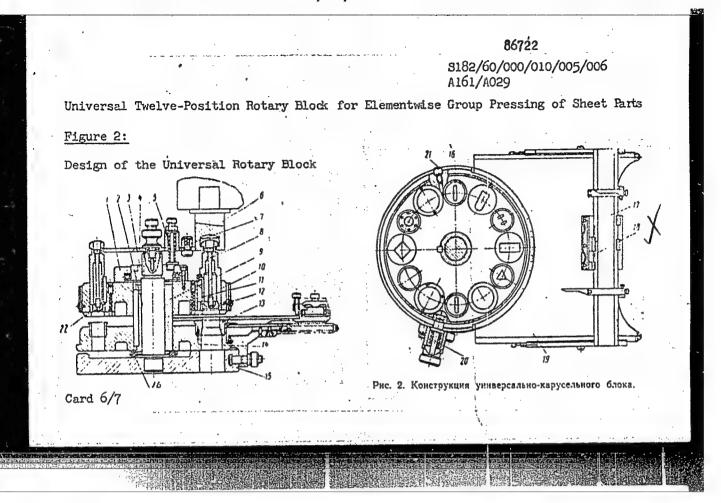
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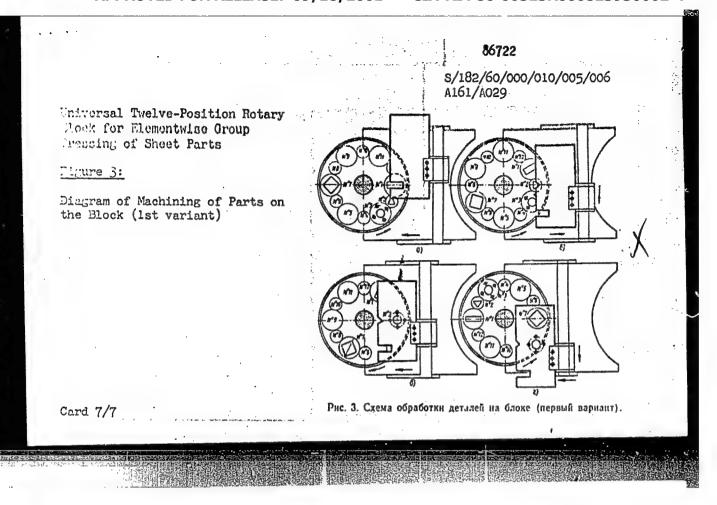
Universal Twelve-Position Rotary Block for Elementwise Group Pressing of Sheet Parts

of the work packets can be cut to the minimum, i.e., 40 - 45 rubles. The block is to be installed stationary on a cam press of 25-ton pressure with a minimum slider travel of 8 - 12 mm, no less than 215 mm space between the press frame and the slider axis, and no less than 300 mm between the press table and the top limit position of the slider (open height). The use of programming is possible. There are 5 figures.

Card 4/7







s/182/61/000/003/009/009 A161/A133

AUTHOR:

Kolosov, V. M.

TIPLE:

Multipurpose block for quick-change dies

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 3, 1961, 39 - 41

The described multipurpose block has been designed for the fastening of quick-change blanking dies (plate dies) of successive action for small-lot production of complex parts stamped by the gang method from strip metal (steel, nonferrous metals or alloys) of 0.1 to 3 mm thickness. The work dies are replaced without removing the block from the press. The block has a top and a bottom base joined with two guide posts. The fixing elements for the top part of the work die are cams, bolts, and a pin. The bottom base has a dropping aperture 60 by 60 mm large, a seat for the bottom part of the work die set, and guide grooves for the clamping wedges. The wedges are screwed to a special screw and retained in the grooves by a shock-absorbing hook with a spring. The wedges, the special screw and the hook are the fixing elements. The work set (plate die) is fitted with either a fixed or mobile remover-clamp, and is produced expecially for stamping one part only. The changing of the work die sets is described in detail. The multipurpose

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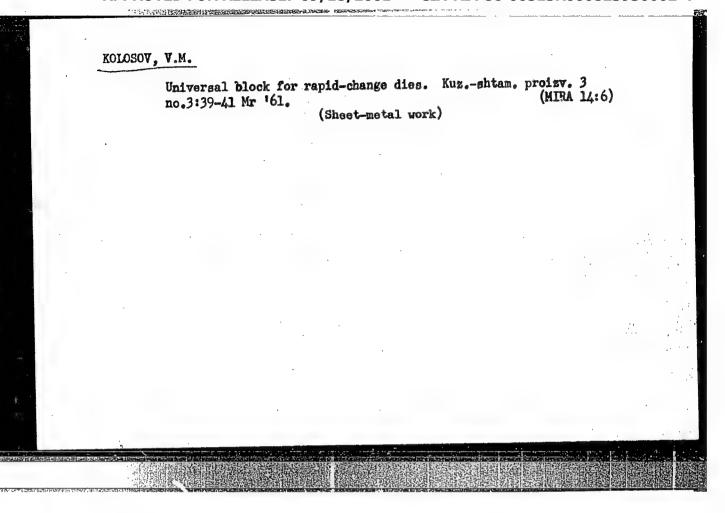
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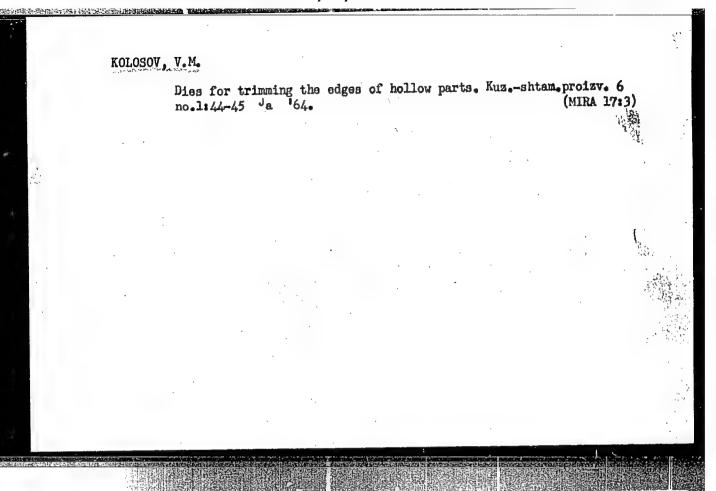
Multipurpose block for quick-change dies

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block shown in illustrations is used in a cam press of 30 ton capacity. Six of the kind of different dimensions have been fabricated. There are 3 figures.

Card 2/2





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KOLOSOV, V.M.; SYURIN, V.N.

Experimental variability of Newcastle disease viruses. Vop. virus 9 no.4:443-451 Jl-Ag '64. (MIRA 18:7)

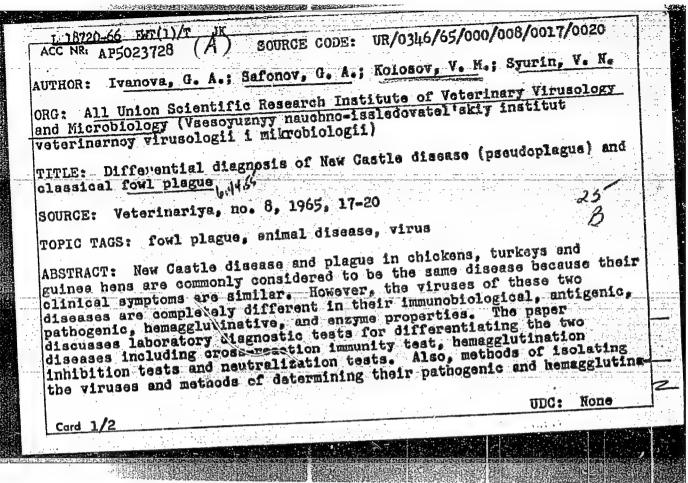
l. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy virusologii i mikrobiologii Ministerstva sel'skogo khozyaystva SSSR, Moskva.

IVANOVA, G.A.; SAFONOV, G.A.; KOLOSOV, V.M.; SYURIN, V.N.

Differential diagnosis of Newcastle disease and European chicken plague. Veterinarita 42 no.8:17-20 Ag '55.

(MIRA 18:11)

1. Vsesoyuznyy nauchno-iseledovatal'skiy institut veterinarncy virusologii i mikrobiologii.



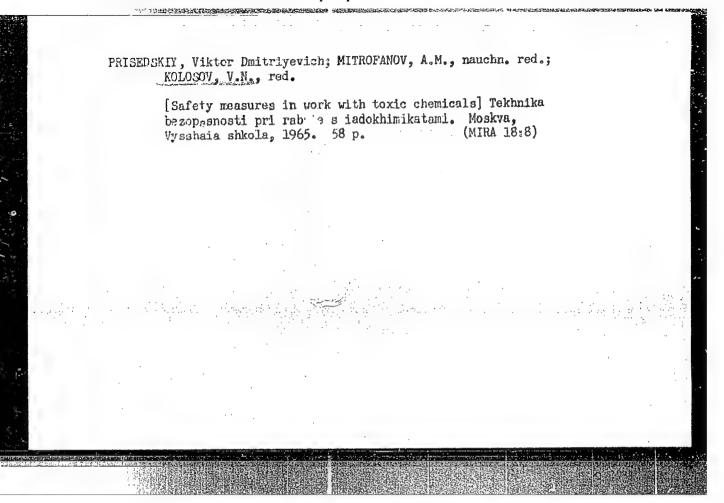
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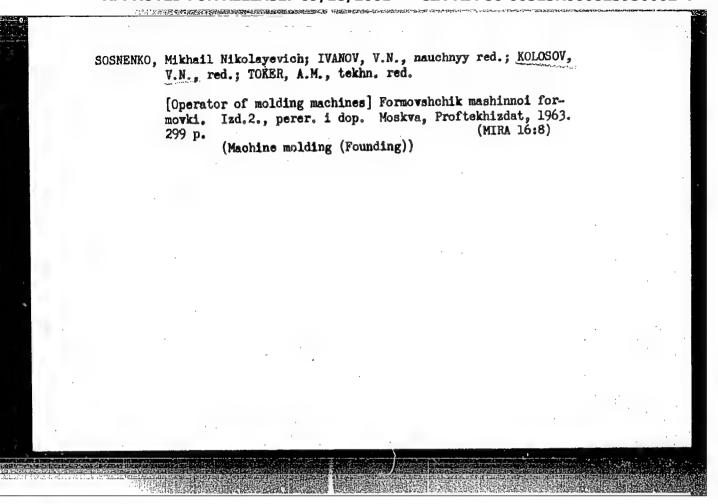
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SHUKHOV, Yuriy Vladimirovich; YELENEV, Sergey Alekseyevich;
GOLOVLEV, V.D., nauchn. red.; KOLOSOV, V.N., red.;
DORODNOVÁ, L.A., tekhn. red.

[Sheet-metal work and cold forging] Kholodnaia shtampovka.
Moskva, Proftekhizdat, 1963. 274 p. (MIRA 17:1)

(Sheet-metal work) (Forging)





CHERNYAK, Viktor Samuilovich; VOSHCHANOV, Komstantin Pavlovich;

ZVECINTSEVA, K.V., nauchnyy red.; KOLOSOV, V.W., red.;

NESMYSLOVA, L.M., tekhn. red.

[A young Melder's manual] Spravochnik molodogo svarshchika.

Izd.3., perer. i dop. Moskva, Proftekhisdat, 1963. 527 p.

(MIRA 15:7)

(Welding-Handbooks, mamuals, etc.)

CRUZDEV, Aleksey Nikolayevich; KOLOSOV, V.N., red.; ABOLEMOV, V.P., red.

[Mechanized coremaking for foundry molds] Mekhanizirovannoe izgotovlenie sterzhnei dlia liteinykh form. Moskva, Vysshaia shkola, 1965. 293 p. (MIRA 18:2)

\$/096/63/000/004/005/010 E194/E455

AUTHORS:

Gel'man, L.I., Candidate of Technical Sciences, Kolosov, V.V., Candidate of Technical Sciences,

Tyul'nev, I.I., Engineer

TITLE:

Heat circuits of binary mercury-water nuclear power

stations

PERIODICAL: Teploenergetika, no.4, 1963, 49-52

The binary mercury-steam cycle promises higher thermal efficiency of nuclear power stations, although mercury can only be used directly in a fast neutron reactor: in other types an additional heat-transfer medium is required. A thermal block diagram is suggested of a power station with an output of 180 MW. Of this, the mercury set working at an evaporation rate of 4015 t/hour generates 80 MW; the steam set generates 100 MW with steam conditions of 35 atm, and 435°C, obtained by a combination of cooling water from the mercury condenser and feed-water heating from the mercury turbine. Because of the interdependence of the mercury and steam circuit conditions it is quite a complicated matter to select the optimum cycle. The overall thermal Card 1/3

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Heat circuits of binary ...

efficiency is affected by the number of steam superheaters and on the positions from which the mercury vapor is tapped to heat them. This problem is investigated theoretically by formulating a balance of the work that can be obtained from the cycle, allowing for the quantity of heat used. Comparisons can then be made between equipments with various numbers of super-heaters, and the best positions of the tapping points determined. By way of example, a binary cycle is considered with a steam turbine of 100 MW. steam conditions of 90 atm, 535°C, feed-water temperature 220°C, and mercury vapor at 236 atm, 600°C, with a pressure of 0.6 atm in the mercury condenser. The use of additional mercury superheaters gives diminishing advantages and their number should not exceed 3. Indeed, the transition from two to three superheaters increases the overall efficiency by less than 1% and considerably complicates the heat circuit, so that the best number of steam superheaters is 2. The first tapping point should be in the mand penultimate stage of the turbine; the second should be in the stage whose mercury vapor conditions are such that the steam can be heated to the required temperature. In this case the Card 2/3

S/096/63/000/004/005/010 E194/E455

Heat circuits of binary ...

efficiency of the mercury part of the installation is about 7% higher than in the case of single stage superheat. A factor which limits the potential use of mercury in nuclear power stations is the low critical heat flux which, for magnesium amalgams is of the order of 4 x 105 kcal/m²hour. Further experimental work is required for solving the problem of intensifying heat exchange of boiling mercury. Loadings of 1.6 x 106 kcal/m²hour have been obtained in the laboratory. The use of a binary mercury/steam cycle can raise the overall efficiency of nuclear power stations to 45 to 51%, which is much higher than the efficiency obtained with other heat-transfer media and so the method is, in principle, promising. There are 3 figures and 1 table.

Card 3/3

INYUTKIN, A.; KOLOSOV, Ye.; OSNACH, L.; KHABAROVA, V.; KHABAROV, E.; SHARAVSKIY, P.

Studies of solid solutions on the basis of compounds of the types A^{III}BV and A^{II}BVI. Izv. AN SSSR. Ser. fiz. 28 no.6:1010-1016 Je ¹64. (MIRA 17:7)

l. Kafedra fiziki Leningradskogo inzhenerno-stroitel¹nogo instituta.

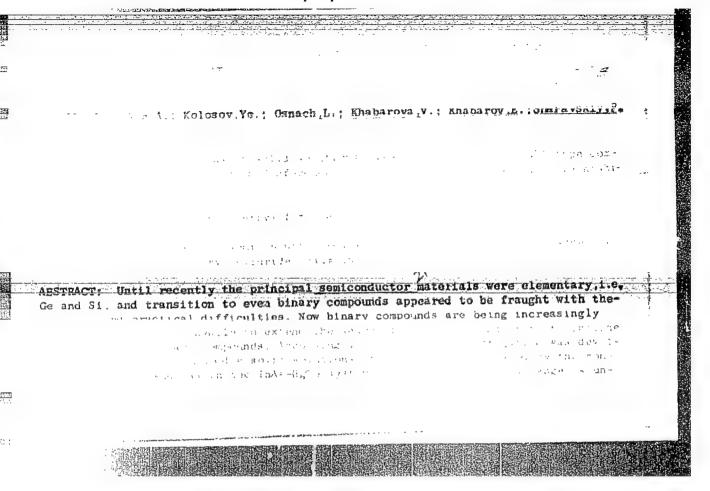
Complex apparatus for the production of highly volatile semiconducting compounds. Ye. Kolosov. (Laningrad Institute of Engineering Materials).

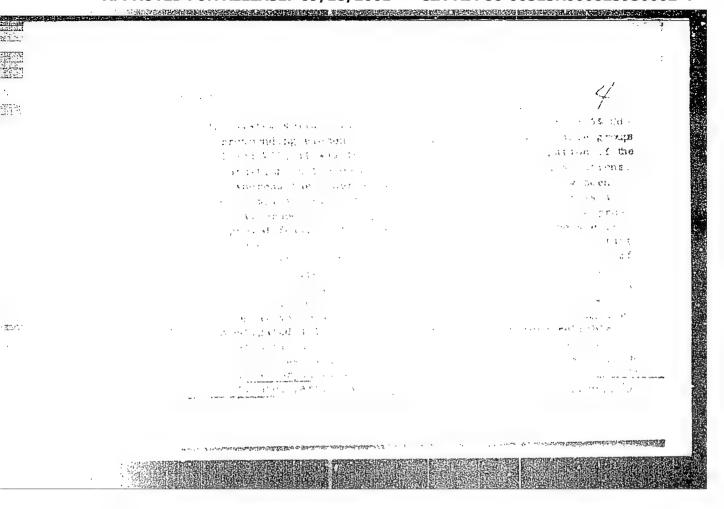
On solid solutions of the system HgTe-InAs. L. A. Osnach, P. V. Sharavskiy.

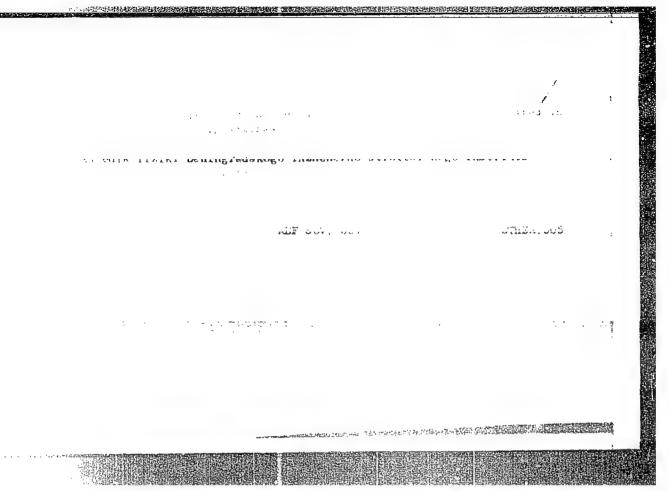
On interatomic forces of bonds in solid solutions of HgTe-InAs.

D. I. Inyutkin, P. V. Sharavskiy.

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963





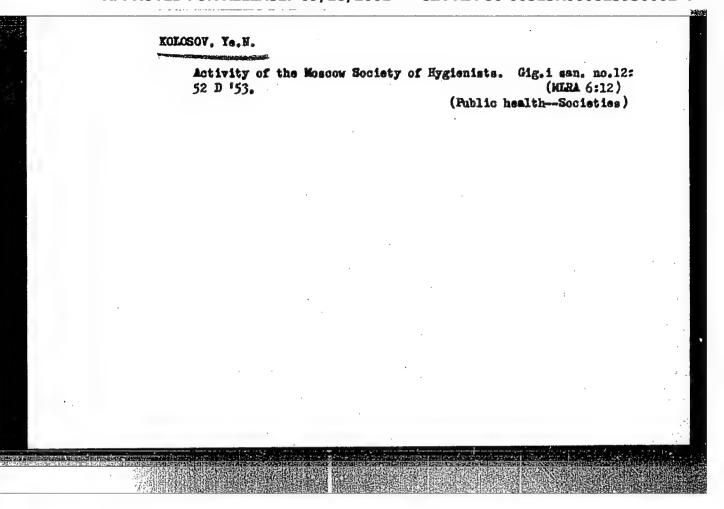


KOLOSOV, Yo.N., aspirent

Representing populated areas on topographic maps. Izv. vys. ucheb. zav.; geod. i aerof. no.4:89-96 164.

(MIRA 18:2)

1. Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii. Rekomendovana kafedroy sostavleniya i redaktirovaniya.



3(2) AUTHOR:

Kolosov, Ye. N

SOV/6-59-8-11/27

TITLE:

Representation of Settlements in Mountain and High-mountain Regions on Topographic Maps of a Scale of 1: 25,000 (Izobrazheniye na topograficheskikh kartakh masshtaba 1: 25,000 naselennykh punktov v gornykh i vysokogornykh rayonakh)

PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 8, pp 45-50 (USSR)

ABSTRACT:

In the present paper a survey is given of the variety of settlements in the mountain regions of the Caucasus with reference to planning, built-up areas, form and width of streets, timber and stone structures, distribution of the individual buildings, population, and area covered, and the difficulties encountered by the topographer in representing them on topographic maps is pointed out. Recommendations for individual cases are made. The typical feature of the settlements in the West Caucasus (Abkhaziya, Imeretiya, Guriya, Mingreliya) is the fact that buildings are scattered, the distances between houses amounting to 100 - 150 m and more. Houses are made of wood and are two-storied. At the transition from the lowland

Card 1/3

Representation of Settlements in Mountain and SOV/6-59-8-11/27High-mountain Regions on Topographic Maps of a Scale of 1: 25,000

> plains to the foothills the distance between houses is reduced to 50-60 m. - In high-mountain and upland regions in the West Caucasus (Svanetiya, Racha, Osetiya, Kabardino-Balkariya) the villages are to be found in the valleys on the river terraces. Houses are close together. They are of stone or wood. In all parts of the Caucasus region they are surrounded by gardens and vineyards. In this connection recommendations are made for the correct representation of both houses and gardens on the maps. The mountain regions of the East Caucasus are more easily accessible than the West Caucasus, and thus more densely populated. Settlements are situated not only along the valleys but also on terraces and wide plateaus (Armyanskoye Highlands, Khunzakhskoye Plateau, Gunibskoye Plateau, etc.). Settlements in the Dagestan, Checheno-Ingushetiya, Karabakh, Armyanskoye Highland, and in the mountain regions of East Gruziya are typical of mountain settlements characterized by continuous lines of houses. Rather frequently the roof of one house serves as the courtyard of another. Almost all buildings are made of stone, there are no yards, the fields belonging to the farms are situated outside the village. It is typical of these places that all houses face southward. In Khevsuretiya (East Gruziya) some

Card 2/3

Representation of Settlements in Mountain and SOV/6-59-8-11/27 High-mountain Regions on Topographic Maps of a Scale of 1: 25,000

people live in rocks, in caves, which do not appear on topographical photos or under the stereoscope. The lay-out of the villages varies greatly: unsystematic settlements, settlements with block subdivisions, the latter being distinguished as to whether they are to be found in the plains or in the mountains. Recommendations are made for the representation of ancient historic buildings and ruins as they are very frequent in the Caucasus: churches, mosques, castle towers, monuments, as well as for the representation of the many alpine sheds, Kutan (living quarters of herdsmen), barns, farms, spas, workers' housing developments near mines, and hydroelectric stations. -In conclusion it is stated that the existing subdivisions of settlements do not take account of the great variety of the same and do not answer the many questions connected with them. It is demanded that definite regulations be issued covering all existing variations of settlements. In this work the services of field editors would be of essential importance. There are 4 figures.

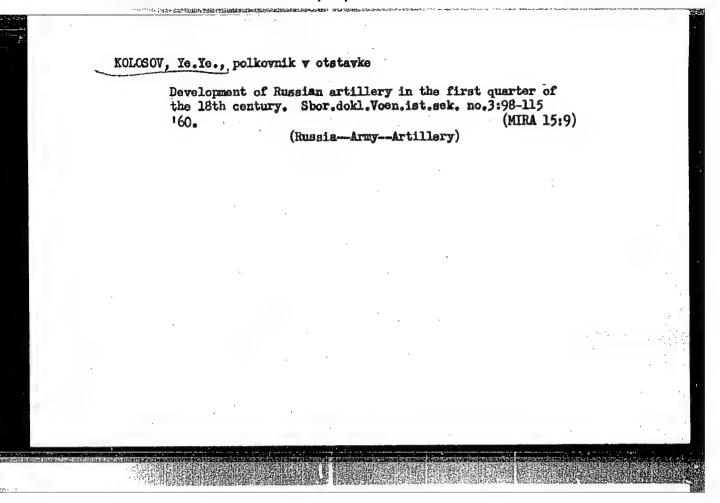
Card 3/3

Epidemiological characteristics of a water-borne outbreak of dyaontery and some data on the immunology of dysentery. Zhur. mikrobiol.epid.1 immun. 31 nq.9:125-130 S '60. (MIRA 13:11)

1. Iz Sanitarno-epidemiologicheskoy stantsii, Podol'sk. (DYSENTERY) (WATER-MIGROBIOLOGY)

	L 2207-66 EVT(1)/T IJP(c) GG ACCESSION NR: AP5017339 AUTHOR: Kolosov, Ye. Ye.; Sharavskiy, P. V. TITIE: On the thermal emf and thermal conductivity of mercury telluride with different impurity contents 21/1/22 SOURCE: Fizika tverdogo tela, v. 7, no. 7, 1965, 2247-2249 TOPIC TAGS: mercury compound, telluride, thermal emf, thermal conduction, impurity conductivity ABSTRACT: The authors present the results of an investigation of the dependence of ABSTRACT: The authors present the results of an investigation of the dependence of purity contents in the interval from 140 to 340K for the thermal emf and from 90 to purity contents in the interval from 140 to 340K for the thermal emf and from 90 to 430K for the thermal conductivity. Seven samples whose electric characteristics were described by the authors earlier (collection "Fizika," p. 51, 1965) were investigated. The measurement apparatus was described by D. Kh. Amirkhanova and R. I. Bashirov (FTT v. 2, 5097, 1960). The thermal conductivity was measured by an absolute stationary method. The measurements were made in vacuum of ~10 ⁻⁴ cm Hg. The thermal emf was measured simultaneously with the conductivity. The measured thermal emfs of the individual samples agreed with those expected of material of thermal emfs of the individual samples agreed with those expected of material of	
	thermal emfs of the individual sampled agreed with those expending by thermal p-type. The thermal conductivity was found to be determined principally by thermal Cord 1/2	
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JD/JG ENT(1)/ENT(m)/ENP(t)/ETI IJP(c) L 09021-67 SOURCE CODE: UR/0275/66/000/002/B008/B008 ACC NR: AR6019910 6.0 AUTHOR: Kolosov, Ye. Ye.; Sharavskiy, P. V. ,27 TITLE: Effect of the magnetic field on certain electrical characteristics of HgTe . with various carrier concentrations SOURCE: Ref. zh. Elektronika i yeye primenoniye, Abs. 2B64 REF SOURCE: So. Fizika. Dokl. k XXIII Nauchn. konferentsii Leningr. inzh.-stroit. in-ta, L., 1965, 31-34 TOPIC TAGS: Hall coefficient, magnetic field, electric conductivity, carrier concentration, electron hole ABSTRACT: The dependence of the Hall coefficient and the conductivity on the magnetic field in the 4 to 20 kilooersteds interval at temporatures of 294°K and 77°K for p-type specimens with a concentration of 1017 to 1021 cm-3 at 77°K was investigated experimentally. Various concentrations were arrived at by the introduction of an additional quantity of Hg. At 294°K the Hall coefficient does not depend on the carrier concentration and magnetic field, the conductivity decreases with increase in the magnetic field, and the magnetic resistive coefficient increases. At 77°K the conductivity of the specimens with large carrier concentration does not depend on the magnetic field, and decreases with increase in the field so far as the VDC: 539,293:546.24'49:537.312.8 Card 1/2

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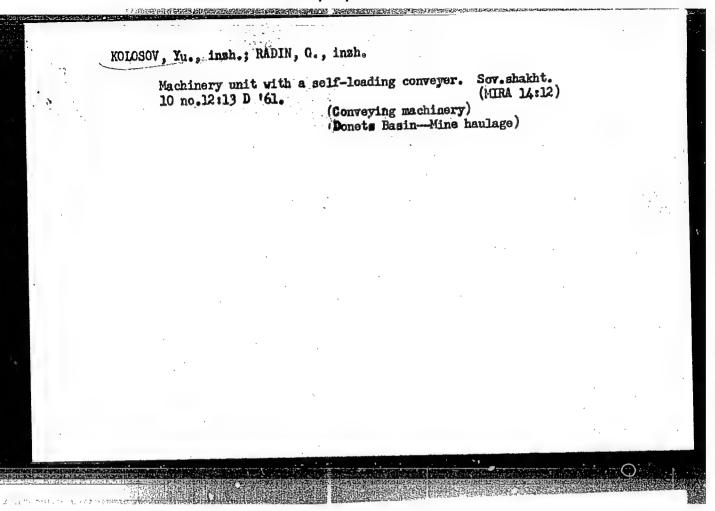
Dissertation defended for the degree of Candidate of Historical Science in the Institute of History

"Reorganization of Russian Artillery in Relation to the Military Reforms of the First Quarter of the XVIII Century."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

IJP(c) JD/JG EWT(1)/EWT(m)/EWP(t)/ETI L 45517-66 SOURCE CODE: UR/0058/66/000/004/2074/2074 ACC NR. AR6025786 AUTHOR: Kolosov, Ye. Ye. TITLE: Influence of a magnetic field on certain thermal characteristics of mercury telluride V SOURCE: Ref. zh. Fizika, Abs. 4E574 REF SOURCE: Sb. Issled. po matem. i eksperim. fiz. i mekhan. L., 1965, 153-158 TOPIC TAGS: mercury compound, telluride, magnetic field, Nernst effect, Ettingshausen effect, temperature dependence, thermal conduction, impurity scattering ABSTRACT: The dependence of the longitudinal Nernst-Ettingshausen (NE) effect and of the Maggi-Righi-Leduc (MRL) effect on the magnetic field intensity (0 < H < 20 kOe) was investigated in HgTe in the temperature interval 180-340K. The HgTe samples had p-type concentration with impurity density from 3 x 1017 to 1020 cm-3. The dependence of the MRL effect on H did not change with temperature and was the same for samples with different impurity densities, and this, in the author's opinion, is evidence of the smallness of the electronic component of the thermal conductivity. The dependence of the longitudinal NE effect on H at T < 250K in weak fields turned out to be quadratic, in accordance with the predictions of the theory. The behavior of the NE coefficient at T > 290K indicates that lattice scattering predominates in HgTe in this temperature region. R. Vinetskiy. [Translation of abstract] SUB CODE: 20 1/1

1. 15729-66 EWT(1)/EWT(a)/ETC(2)/EWC(a)/T/EWP(t)/EWP(b) ACC NR. LJF(c) AF6000887 EQUACE CODE: UR/0181/65/007/012/3679/3681 AUTHOR: Kolosov, Ye. Ye.; Sharavskiy, P. V. こうない からかい ORG: Leningrad Engineering-Construction Institute (Leningradskiy inzhenerno-TITLE: Dependence of the thermoelectric power on the transverse magnetic field in SOURCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3679-3681 TOPIC TAGS: mercury compound, telluride, thermoelectric power, carrier density, Hall coefficient, impurity scattering, transverse magnetic field ABSTRACT: The thermoelectric power was measured in p-type HgTe with different carrier density as a function of the transverse magnetic field (0--20 koe) at different temperatures from 180 to 340K. The samples, apparatus, and test procedure were the same as in an earlier study (FIT, v. 7, 2247, 1965). The three samples measured had carrier densities 3 x 10¹⁷, 1 x 10¹⁸, and 1 x 10²⁰ cm⁻³, and were in the form of rectangular parallelepipeds (13--16) x (5--6) x (4--5) mm, consisting of several single crystals. At low temperatures (188K) the thermoelectric power decreased with increasing magnetic field and its sign reversed in the case of two samples (Fig. 1). This suggests that HgTe contains also light holes, as suggested earlier in the analysis of the dependence of the Hall coefficient on the magnetic field. The results also show that the variation of the thermoelectric power with the magnetic field is sensitive to the presence of acceptor impurities. This in turn indicates that the Card 1/2 SURM DATE: SUB CODE: 20/ Card 2/2



ACCESSION NR: AP4024063

8/0048/64/028/002/0377/0383

AUTHOR: Vil'dgrube, G.S.; Ronkin, Zh.M.; Kolosov, Yu.A.

TITLE: Time and pulse parameters of "zalyuzi" (louvered dynode) series photomultipliers /Report, Thirteenth Annual Conference on Nuclear Spectroscopy held in Kiev 25 Jan to 2 Feb 1962/

SQURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.2, 1964, 377-383

TOPIC TAGS: photomultiplier, louvered photomultiplier, photomultiplier time parameter, photomultiplier pulse parameter, photomultiplier characteristics

ABSTRACT: "Zalyuzi" series (louvered dynode type) photomultipliers are now successfully used for investigating short-lived processes. Photomultipliers used for investigation of fast processes must have, in addition to a short rise time and a short output pulse, a small electron transit time straggle in the dynode system and weak dependence of the output parameters on the voltage distribution over the dynodes. The present investigation was undertaken in view of the fact that there is some confusion regarding the performance characteristics of different Soviet and foreign photomultipliers. The purpose of the work was to investigate and measure the rise

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ACCESSION NR: AP4024063

time, the pulse duration, the transit time, the straggle of the transit time, and side effects in the case of multipliers of the "zalyuzi" type to determine the dependence of these parameters on the supply conditions. The measurements were carried out using "standard" instruments now being commercially produced by Soviet industry. The measurements were carried out by two procedures: rapid oscillographing and the procedure of measurement of the pulse rise in a fast coincidence system. In general, the results obtained by the two procedures are consistent. Measurements were carried out on some 1 to 20 samples of the domestic photomultipliers designated FEU-11, FEU-12, FEU-13, FEU-14, FEU-15, FEU-16, FEU-33, FEU-36, FEU-49 and FEU-52, and on the following photomultipliers of foreign manufacture: RCA-6810, RCA-6342 and FM1-9558. Some typical oscillograms are reproduced. Data obtained on the pulse rise time (steepness of the leading edge) and the smearing out (straggling) of the electron beam in the dynode system are presented in tables. A figure shows curves characterizing the variation in the amplitude of the output pulse with variation of the voltage on the ninth dynode. The results of the other measurements are discussed in general terms and the different photomultipliers are compared. Measurements show that as regards steepness of the leading edge of the output pulse the Soviet FEU-13, FEU-14, FEU-15 and FEU-16 photomultipliers are equal to the best foreign

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L 07956-67 EWI'(m) IN

ACC NR. AP6033495 SOURCE CODE: UR/0413/66/000/018/0117/0117

INVENTOR: Kolosov, Yu. A.; Naroditskaya, Yu. I.

ORG: none

TITLE: Hydraulic mechanism for balancing rotors. Class 42, No. 186173

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 18, 1966,

TOPIC TAGS: rotor, rotor balancing, balancing mechanism

ABSTRACT: An Author Certificate has been issued describing a hydraulic mechanism for balancing in motion rotors, containing an internal bushing with ribs along a generating line and an external bushing—both fixed on the rotor pivots; the operating chambers are provided with seals. To achieve an automatic balancing of the inflexible and flexible rotors while in operation, reverse valves are installed at the operating chambers intake, and each operating chamber is provided with a servomechanism and a release valve, which is controlled by the servomechanism; the pressure is controlled from the radially opposed operating chamber through a pipeline, connecting each chamber with the servomechanisms of the radially

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